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The Honorable Claiborne Pell
United States Senate

Dear Senator Pell:

This is in response to your letter dated November 29, 1973, in which you asked us to obtain the total amount of petrochemicals that has either been shipped to, processed for, or expended on the United States' military involvement in Southeast Asia from January 1969 to date. In a subsequent discussion with your office, we learned that you are primarily interested in petroleum fuels, including aviation gasoline, distillate fuels, jet fuels, motor gasoline, and residual fuels.

To comply with your request, we obtained data from the Defense Fuel Supply Center (DFSC), the Department of Defense International Security Affairs (ISA) office, and the Agency for International Development (AID) on the petroleum fuels provided for Vietnam, Cambodia, Thailand, and Laos. Although products furnished under the AID program cannot be used for military purposes, we included the petroleum furnished to Southeast Asia under the AID program because the amount is substantial and its inclusion gives a better perspective of the total fuel shipped to Southeast Asia.

Data obtained from DFSC and ISA is for fiscal years 1969 through 1973 and data from AID is for the second half of fiscal year 1969 and fiscal years 1970 through 1973. Quantities and dollar amounts listed in this letter are agency figures and have not been verified by our staff.

The fuels involved and their primary uses are as follows.

<u>Product</u>	<u>Use</u>
Aviation gasoline	Propeller aircraft and helicopters
Distillate fuels:	
Diesel fuels	Diesel-engined vehicles, heaters, and
Fuel oil	ships
Jet fuel	Jet-powered aircraft
Motor gasoline	Automotive vehicles
Residual fuels	Large heating plants and ships

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To summarize the total quantity of petroleum fuels provided to Southeast Asia, we had to estimate the number of barrels funded for Cambodia and Laos under the Military Assistance Program (MAP) and Military Assistance Service Fund (MASF). The Department of Defense (DOD) supplied us with the worldwide average cost per barrel for each product for fiscal years 1969 through 1973, which we used to compute the barrel quantities.

The summarized quantities for military and nonmilitary use are as follows.

	<u>Number of 42-gallon barrels</u>			
	Consumed by military (note a)	Budgeted for MASF in Laos and MAP in Cambodia (note b)	Total military	Nonmilitary (note c)
Aviation gasoline	14,223,000	1,290,255	15,513,255	754,230
Distillate fuels	45,676,000	709,292	46,385,292	19,661,410
Jet fuels	163,896,000	332,883	164,228,883	324,337
Motor gasoline	23,530,000	843,934	24,373,934	7,748,015
Residual fuels	-	-	-	19,561,050
Total	<u>247,325,000</u>	<u>3,176,364</u>	<u>250,501,364</u>	<u>48,049,042</u>

^aFor details see enc. I.

^bWe estimated the quantity in barrels. For details see enc. II.

^cFor details see enc. III.

FUEL CONSUMED BY U.S. AND ALLIED
MILITARY FORCES IN SOUTHEAST ASIA

We obtained from DFSC the quantities of petroleum fuels consumed by our troops and allied military forces in Southeast Asia during fiscal years 1969 through 1973. According to a DOD official, indeterminable amounts of this fuel were used for operations in Cambodia and Laos. He also noted that

the DFSC data includes all petroleum fuels consumed in Southeast Asia for military purposes except for MASF aid to Laos and MAP aid to Cambodia. Enclosure I gives details of the quantities furnished by DOD and consumed by the United States and allied military forces in Southeast Asia.

FUEL PROVIDED CAMBODIA
AND LAOS UNDER MAP AND MASF

The MAP and MASF programs provide equipment, supplies, and services on a grant basis to meet urgent needs of allied and friendly countries whose defense requirements cannot be met in any other way. DOD and ISA officials said that MAP provided only Cambodia with petroleum fuels and that MASF provided Laos and Thailand with petroleum fuels. (However, petroleum fuels provided by MASF for Thailand are included in enclosure I.)

ISA gave us data on the number of dollars budgeted for petroleum fuels funded by DOD through MAP for Cambodia and through MASF for Laos during fiscal years 1969 through 1973. As mentioned above, we used average costs per barrel made available to us by DOD to convert dollars to barrels. For details of the budgeted amounts for Cambodia and Laos, see enclosure II.

AID PROGRAM

We also obtained the quantity of petroleum fuels purchased for Southeast Asia through the AID program during January 1, 1969, through June 30, 1973. The primary objective of the AID program is to help less developed countries harness their total resources to improve the quality of life for all of their people. According to an AID official, products provided through the AID program are prohibited from being used for military purposes.

AID data was originally expressed in dollars expended; however, AID personnel provided us with factors to convert the data to physical quantities in barrels. Enclosure III contains details on the quantities purchased for Southeast Asia through the AID program.

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We do not plan to distribute this report further unless you agree or publicly announce its contents.

Sincerely yours,

A handwritten signature in black ink, appearing to read "P. F. Keller". The signature is written in a cursive style with a large initial "P".

[Deputy] Comptroller General
of the United States

Enclosures - 3

PETROLEUM PRODUCTS CONSUMED BY
U.S. AND ALLIED MILITARY FORCES IN SOUTHEAST ASIA

<u>Fiscal year and country</u>	<u>Aviation gasoline</u>	<u>Distillate fuel</u>	<u>Jet fuels</u>	<u>Motor gasoline</u>	<u>Total (note a)</u>
	(in barrels)				
1969:					
Vietnam	3,344,000	9,849,000	24,909,000	5,505,000	43,607,000
Thailand	<u>1,290,000</u>	<u>1,007,000</u>	<u>19,154,000</u>	<u>542,000</u>	<u>21,993,000</u>
Total	<u>4,634,000</u>	<u>10,856,000</u>	<u>44,063,000</u>	<u>6,047,000</u>	<u>65,600,000</u>
1970:					
Vietnam	2,555,000	10,383,000	22,240,000	5,315,000	40,493,000
Thailand	<u>1,234,000</u>	<u>1,037,000</u>	<u>17,567,000</u>	<u>443,000</u>	<u>20,281,000</u>
Total	<u>3,789,000</u>	<u>11,420,000</u>	<u>39,807,000</u>	<u>5,758,000</u>	<u>60,774,000</u>
1971:					
Vietnam	1,905,000	8,977,000	15,215,000	4,533,000	30,630,000
Thailand	<u>741,000</u>	<u>787,000</u>	<u>14,933,000</u>	<u>371,000</u>	<u>16,832,000</u>
Total	<u>2,646,000</u>	<u>9,764,000</u>	<u>30,148,000</u>	<u>4,904,000</u>	<u>47,462,000</u>
1972:					
Vietnam	1,474,000	7,225,000	8,218,000	3,775,000	20,692,000
Thailand	<u>388,000</u>	<u>639,000</u>	<u>16,953,000</u>	<u>287,000</u>	<u>18,267,000</u>
Total	<u>1,862,000</u>	<u>7,864,000</u>	<u>25,171,000</u>	<u>4,062,000</u>	<u>38,959,000</u>
1973:					
Vietnam	1,000,000	4,812,000	3,900,000	2,404,000	12,116,000
Thailand	<u>292,000</u>	<u>960,000</u>	<u>20,807,000</u>	<u>355,000</u>	<u>22,414,000</u>
Total	<u>1,292,000</u>	<u>5,772,000</u>	<u>24,707,000</u>	<u>2,759,000</u>	<u>34,530,000</u>
Total	<u>14,223,000</u>	<u>45,676,000</u>	<u>163,896,000</u>	<u>23,530,000</u>	<u>247,325,000</u>

^aDOD did not provide residual fuels for Southeast Asia.

ENCLOSURE III

AID-FUNDED PETROLEUM FUELSPROVIDED FOR SOUTHEAST ASIA

<u>Fiscal year and country</u>	<u>Aviation gasoline</u>	<u>Distillate fuels</u>	<u>Jet fuels</u>	<u>Motor gasoline</u>	<u>Residual fuels</u>	<u>Total</u>
(in barrels)						
1969 (Jan. 1- June 30):						
Vietnam	191,753	1,561,249	67,281	814,967	2,436,680	5,071,930
Cambodia	-	-	-	-	-	-
Laos	25,465	109,956	-	101,591	22,054	259,066
Thailand	-	-	-	-	-	-
Total	<u>217,218</u>	<u>1,671,205</u>	<u>67,281</u>	<u>916,558</u>	<u>2,458,734</u>	<u>5,330,996</u>
1970:						
Vietnam	63,358	1,473,640	28,659	822,520	1,481,277	3,869,454
Cambodia	-	-	-	-	-	-
Laos	-	365,114	-	-	-	365,114
Thailand	-	-	-	-	-	-
Total	<u>63,358</u>	<u>1,838,754</u>	<u>-28,659</u>	<u>822,520</u>	<u>1,481,277</u>	<u>4,234,568</u>
1971:						
Vietnam	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-
Laos	-	304,649	-	-	2,214	306,863
Thailand	-	-	-	-	-	-
Total	<u>-</u>	<u>304,649</u>	<u>-</u>	<u>-</u>	<u>2,214</u>	<u>306,863</u>
1972:						
Vietnam	115,155	5,296,786	133,251	2,263,243	7,034,549	14,842,984
Cambodia	154,887	767,758	12,485	244,270	1,172,724	2,352,124
Laos	-	317,438	-	-	8,755	326,193
Thailand	-	-	-	-	-	-
Total	<u>270,042</u>	<u>6,381,982</u>	<u>145,736</u>	<u>2,507,513</u>	<u>8,216,028</u>	<u>17,521,301</u>
1973:						
Vietnam	136,906	8,425,619	25,491	3,119,985	6,858,939	18,566,940
Cambodia	66,706	1,039,201	57,170	381,439	543,858	2,088,374
Laos	-	-	-	-	-	-
Thailand	-	-	-	-	-	-
Total	<u>203,612</u>	<u>9,464,820</u>	<u>82,661</u>	<u>3,501,424</u>	<u>7,402,797</u>	<u>20,655,314</u>
Total	<u>754,230</u>	<u>19,661,410</u>	<u>324,337</u>	<u>7,748,015</u>	<u>19,561,050</u>	<u>48,049,042</u>